

jean-françois pamb Brun

researcher | engineer | software developer

about

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languages

bilingual french/english

programming

java, javascript
python, numpy
matlab, c, c++
linux, xml, git
html5, latex
tensorflow

standards

dicom, ihe, hl7
jpeg 2000, jpip

interests

medical imaging
image compression
deep learning
rendering

† not a member of the OIQ
‡ fast-track doctoral
admission without obtaining
a master's degree

education

2011-2016	Ph.D. in electrical engineering <i>improving medical image compression and transmission</i>	École de technologie supérieure
2009-2010	M.Sc. in electrical engineering (incomplete†) <i>evaluation of the diagnostic quality of lossy compressed medical images</i>	École de technologie supérieure
2005-2009	B.ing. in electrical engineering <i>information technologies and telecommunication</i>	École de technologie supérieure

experience

2017-	software developer <i>cloud-based diagnostic workstation with client-side MPR</i>	nucleus.io
2016 (06-12)	postdoctoral fellow <i>MR-TRUS fusion and segmentation using deep neural networks</i>	CHUM research centre
2016 (09-12)	lecturer <i>procedural programming (inf1005a)</i>	École Polytechnique de Montréal
2009-2014	lecturer <i>software development environment (ele116) image processing and analysis (ele747)</i>	École de technologie supérieure
2007-2014	teaching assistants <i>healthcare distributed systems (gts840) software development environment (ele116) image processing and analysis (ele747)</i>	École de technologie supérieure

awards

2017	NSERC post-doctoral scholarship	90,000\$
2017	FRQNT post-doctoral scholarship	70,000\$
2016	GRSTB postdoctoral fellowship	18,000\$
2011	NSERC doctoral Alexander-Graham-Bell scholarship	105,000\$
2011	ÉTS excellence graduate student scholarship	60,000\$
2011	FRQNT doctoral research scholarship	60,000\$
2009	FRQNT master's research scholarship	30,000\$
2006	NSERC undergraduate student research awards	4,500\$

committee and board memberships

2013-2016	board member of an NPO vice-president of services academic commission student representative disciplinary committee student representative	Association étudiante de l'ÉTS
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publication

articles in peer-reviewed journals

The utilization of MRI in the operating room

Ménard C , Pambrun J-F, Kadoury S

Brachytherapy. *Elsevier*, 2017

Computed Tomography Image Compressibility and Limitations of Compression Ratio-Based Guidelines

Pambrun J.F. , Noumeir R.

Journal of Digital Imaging. *Springer Science*, 2015

Teaching DICOM by Problem Solving.

Noumeir R. , Pambrun J.F.

Journal of Digital Imaging. *Springer Science*, 2012

Streaming of medical images using JPEG2000 interactive protocol

Pambrun J.F. , Noumeir R.

International Journal of Innovative Computing and Applications. 2012

Using JPEG 2000 Interactive Protocol to Stream a Large Image or a Large Image Set

Noumeir R. , Pambrun J.F.

Journal of Digital Imaging. *Springer Science*, 2010

international peer-reviewed conferences/proceedings

Limitations of the SSIM quality metric in the context of diagnostic imaging

Pambrun J.F. , Noumeir R.

IEEE International Conference on Image Processing (ICIP), 2015

Compressibility variations of JPEG2000 compressed computed tomography

Pambrun J.F. , Noumeir R.

IEEE International Conference of the Engineering in Medicine and Biology Society (EMBC), 2013

Perceptual quantitative quality assessment of JPEG2000 compressed ct images with various slice thicknesses

Pambrun J.F. , Noumeir R.

IEEE International Conference on Multimedia and Expo, 2011

Interoperability testing of integration profiles based on HL7 standard version 3

Pambrun J.F. , Noumeir R.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Hands-on Approach for Teaching HL7 version 3

Noumeir R. , Pambrun J.F.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Streaming of Medical Images Using JPEG 2000 Interactive Protocol

Noumeir R. , Pambrun J.F.

IEEE International Conference on Systems, Signals and Image Processing. 2010

Interoperability Testing Software for Sharing Medical Documents and Images

Berube R. , Pambrun J.F, Noumeir R.

IEEE International Conference on Internet and Web Applications and Services. 2010

Images within the Electronic Health Record

Noumeir R. , Pambrun J.F.

IEEE International Conference on Image Processing. 2009